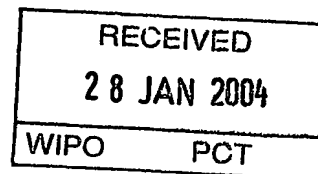




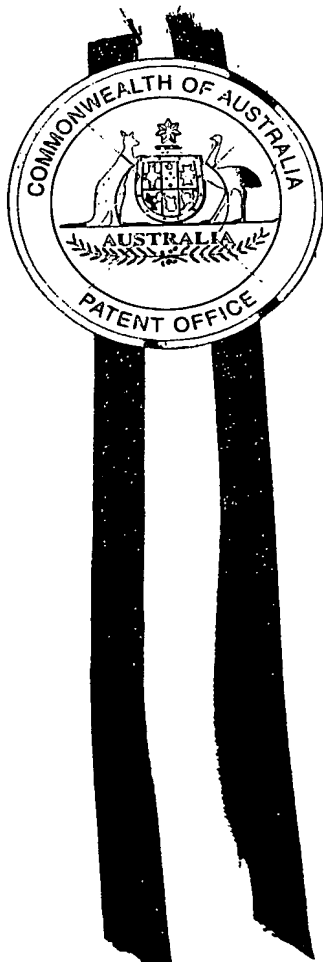
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I, LEANNE MYNOTT, MANAGER EXAMINATION SUPPORT AND SALES hereby certify that annexed is a true copy of the Complete specification in connection with Application No. 2003257926 for a patent by THOMAS BOEHMKE as filed on 29 October 2003.



WITNESS my hand this
Twenty-first day of January 2004

A handwritten signature in ink, appearing to be "L. Mynott".

LEANNE MYNOTT
MANAGER EXAMINATION SUPPORT
AND SALES

AUSTRALIA
Patents Act 1990

COMPLETE SPECIFICATION
STANDARD PATENT

Applicant(s):

MR THOMAS BOEHMKE

Invention Title:

A FENCE PANEL

The following statement is a full description of this invention, including the best method of performing it known to me/us:

A FENCE PANEL

FIELD OF THE INVENTION

- 5 The present invention relates to fencing and more particularly to a fence panel, method for assembling a fence panel, method for installing a section of fence and a frame element for assembling a fence panel.

10 BACKGROUND OF INVENTION

- Suburban properties are often fenced to provide the property owner with increased privacy and security. One of the more popular types of fencing used is timber fencing
15 having a wooden framework to which pine palings are securely fastened. The framework includes vertical fence posts that are anchored in the ground for support and a series of rails attached between each adjacent pair of posts. There are typically two or three evenly spaced
20 wooden rails between each pair of posts; the rails extending horizontally between posts.

- The palings are fastened in a vertical orientation, one by one, to one side of the frame by nailing or stapling each
25 paling to the wooden rails using specialised pneumatic equipment. Adjacent palings overlap to minimise gaps in the fence which can result when the palings do not have straight edges. During fence installation, a plinth board is attached to the base of two adjacent posts and the
30 palings are then fastened to the frame with their lower ends resting on this board. After fastening, the top ends of the palings are trimmed together to produce a completed fence of desired height.

- 35 Accordingly, it will be appreciated that timber fencing is relatively labour intensive to install. In addition, the side of the fence on which the palings are fastened is

aesthetically more pleasing to the eye than the side on which the rails are visible. The rails also provide a means by which people can scale the fence. For example, intruders can use the rails to gain access to a property or children can climb the rails at the risk of hurting themselves by falling. A further problem with this fencing technique is that disputes often arise between neighbouring property owners as to which side of the fence the railings will be visible.

10

SUMMARY OF INVENTION

According to one aspect of the present invention, there is provided a fence panel comprising:

15 at least one frame element having a plurality of first fasteners and a plurality of second fasteners;

 a plurality of first palings respectively fastened to a first side of said at least one frame element by said plurality of first fasteners; and

20 a plurality of second palings respectively fastened to a second side of said at least one frame element by said plurality of second fasteners.

According to a further aspect of the present invention, there is provided a section of fence comprising:

25 two adjacent fence posts;

 at least one frame element between said two adjacent fence posts having a plurality of first fasteners and a plurality of second fasteners;

30 a plurality of first palings respectively fastened to a first side of said at least one frame element by said plurality of first fasteners; and

 a plurality of second palings respectively fastened to a second side of said at least one frame element by said plurality of second fasteners.

35

According to a further aspect of the present invention,

there is provided a gate comprising:

at least one frame element having a plurality of first fasteners and a plurality of second fasteners;

5 a plurality of first palings respectively fastened to a first side of said at least one frame element by said plurality of first fasteners; and

a plurality of second palings respectively fastened to a second side of said at least one frame element by said plurality of second fasteners.

10

According to a further aspect of the present invention, there is provided a method for assembling a fence panel comprising the steps of:

15 providing at least one frame element having a plurality of first fasteners and a plurality of second fasteners;

respectively fastening a plurality of first palings to a first side of said at least one frame element using said plurality of first fasteners; and

20 respectively fastening a plurality of second palings to a second side of said at least one frame element using said plurality of second fasteners.

25 According to a further aspect of the present invention, there is provided a method for installing a section of fence between two adjacent fence posts comprising the steps of:

30 assembling at least one fence panel, each fence panel being assembled by providing at least one frame element having a plurality of first fasteners and a plurality of second fasteners, respectively fastening a plurality of first palings to a first side of said at least one frame element using said plurality of first fasteners, and respectively fastening a plurality of

35 second palings to a second side of said at least one frame element using plurality of said second fasteners;

situating said at least one fence panel between

said two fence posts;

attaching a pair of top rails to an upper portion of each fence post wherein said at least one fence panel is compressed between said pair of top rails; and

5 attaching a pair of bottom rails to a lower portion of each fence post wherein said at least one fence panel is compressed between said pair of bottom rails.

10 According to a further aspect of the present invention, there is provided a frame element for assembling a fence panel, said fence panel comprising at least one said frame element, a plurality of first palings fastened to a first side of each frame element and a plurality of second
15 palings fastened to a second side of each frame element, said frame element comprising:

a plurality of first fasteners for respectively fastening said plurality of first palings to said first side; and

20 a plurality of second fasteners for respectively fastening said plurality of second palings to said second side.

BRIEF DESCRIPTION OF DRAWINGS

25 A preferred embodiment of the invention will now be described in relation to the accompanying drawings, wherein:

30 Figure 1A shows a frame element according to a first embodiment of the present invention;

Figure 1B shows a plan view of the frame element shown in Figure 1A;

35 Figure 2A shows a partially exploded view of a fence panel according to a first embodiment of the present invention;

Figure 2B shows a side view of the fence panel of Figure 2A prior to assembly;

- 5 Figure 3 shows a fence panel installed in a section of fence between two adjacent fence posts according to a first embodiment of the present invention;

- 10 Figure 4 shows a frame element according to a second embodiment of the present invention;

Figure 5 shows a partially assembled fence panel according to a second embodiment of the present invention;

- 15 Figure 6 shows a method for installing a section of fence according to a second embodiment of the present invention;

- Figure 7 shows a fence panel according to a third embodiment of the present invention; and

- 20 Figure 8 shows a fence panel according to a fourth embodiment of the present invention.

DESCRIPTION OF PREFERRED EMBODIMENT

- 25 According to a first embodiment of the present invention, there is provided a frame element 1 for assembling a fence panel 5 as shown in Figure 1. The frame element 1 is produced by punching teeth into a strip of galvanized
- 30 sheet steel having a substantially rectangular cross-section. The frame element 1 comprises a plurality of first teeth 3 and a plurality of second teeth 2. Each first tooth 3 is a tapered spike projecting laterally from the frame element 1 whereas each second tooth 2 is a
- 35 pointed spike which is hooked or bent. The first teeth 3 and second teeth 2 are formed by punching the frame element 1 from one side only.

The frame element 1 has sixteen first teeth 3 arranged in four first sets 7 which are evenly spaced along the frame element 1 in a longitudinal direction, each first set 7 comprising four first teeth 3 and forming a first fastener. In addition, the frame element 1 has twelve second teeth 2 arranged in four second sets 6 which are also evenly spaced along the frame element 1 in a longitudinal direction, each second set 6 comprising three second teeth 2 and forming a second fastener (Figure 1). The first sets 7 are longitudinally offset along the frame element 1 with respect to the second sets 6 wherein there is a first set 7 centrally located between each pair of adjacent second sets 6 and vice-versa.

Figure 2 shows four first wooden palings 4 and four second wooden palings 8 arranged with respect to three frame elements 1 of the fence panel 5. The first palings 4 are of a first width and the second palings 8 are of a second width different to the first width. The frame elements 1 are aligned parallel to each other and evenly spaced apart. The four first palings 4 are arranged in parallel with a first gap 26 between each pair of adjacent first palings 4. Each first paling 4 is positioned so as to be centered over a respective first set 7 of first teeth 3 for each frame element 1. The four first palings 4 are fastened to a first side 22 of the frame element 1 by pressing the plurality of first teeth 3 into the plurality of first palings 4. Each first tooth 3 in a first set 7 thereby penetrates a first paling 4 and, in doing so, securely fastens the first paling 4 to the first side 22 of the frame element 1.

The four second palings 8 are also arranged in parallel such that there is a second gap 28 between each pair of adjacent second palings 8. Each second paling 8 is centrally positioned over a respective second set 6 of

second teeth 2 for each frame element 1. The second
palings 8 are fastened to the second side 24 of the frame
element 1 by pressing the second teeth 2 into the second
palings 8. Applying pressure to the peak of the hooked
5 second teeth 2 causes them to bend and penetrate the
second palings 8 thereby fastening the second palings 8 to
the second side 24 of the frame element 1. Each first set
7 of first teeth 3 for a given frame element 1 penetrates
a separate first paling 4 and similarly each second set 6
10 of second teeth 2 for a given frame element 1 penetrates a
separate second paling 8.

Figure 3 shows a single fence panel 5 installed in a
section of fence between two adjacent fence posts 10. A
15 plinth board 16 is attached to the base of each fence post
10. A bottom rail 14 is attached to a lower portion of
each fence post 10 and abuts the plinth board 16. The
bottom rail 14 has a slot 18 for accommodating the bottom
end of the fence panel 5 wherein the lower ends of the
20 palings 4, 8 are inserted into the slot 18. A top rail 12
is attached to an upper portion of each fence post 10 and
also has a slot 18 for accommodating the top end of the
fence panel 5. The top ends of the palings 4, 8 of the
fence panel 5 are situated in the slot 18 of the top rail
25 12. The rails 12, 14 thereby support each fence panel 5.

The fence panel 5 is thereby aligned in an upright
position and in a straight line between the two fence
posts 10, with the three frame elements 1 being
30 substantially parallel to the ground (and each other) and
the palings 4, 8 being substantially vertical. The bottom
rail 14 and top rail 12 therefore provide an alignment
means for aligning any number of fence panels 5 in a
straight line between two adjacent fence posts 10. A
35 plurality of fence panels 5 would typically be installed
between two adjacent fence posts 10 to form a section of
fence and a fence is formed by installing a plurality of

sections of fence in this way.

The fence panels 5 would typically be pre-fabricated in a factory where their assembly is automated by arranging the frame elements 1 and palings 4,8 in a correct orientation and then using a press to press them together in order to fasten the first palings 4 and second palings 8 to the frame elements 1. Alternatively, the fence panels 5 can be assembled on site manually using a hammer. The fence panel 5 may be formed by respectively fastening the first palings 4 and second palings 8 to the frame element 1 either separately or concurrently. Installing a fence using pre-fabricated fence panels 5 is quicker, less labour intensive and involves using less materials than constructing fences according to known methods, thereby offering a more cost effective fencing alternative.

In addition, the first gaps 26 and second gaps 28 of the fence panel 5 would typically be small enough such that a human foot cannot be inserted between adjacent first palings 4 or second palings 8 respectively. In this manner, a small child or intruder cannot get a footing on the frame element 1, thereby impeding them from scaling an erected fence. The frame element 1 would also be largely obscured from view by the first palings 4 and second palings 8 on either side of the fence and therefore be more aesthetically pleasing to look at than conventional timber fences. Further, as the frame element 1 has a relatively thin cross section, is not as unsightly as conventional fence rails.

It is further apparent that a viewer on one side of the fence cannot look through the gaps to see through the fence to the other side owing to the overlapping nature of the palings. Each first gap 26 is in register with a second paling 8 whereby a person looking through a first gap 26 has their view impeded by a second paling 8.

Similarly, each second gap 28 is in register with a first paling 4 whereby a person looking through a second gap 28 has their view impeded by a first paling 4. The first and second palings 4,8 are thus arranged in an overlapping relationship with one another, thereby resisting the flexion of the frame elements 1. In this embodiment, each first paling 4 overlaps all neighbouring second palings 8.

According to a second embodiment of the present invention, there is provided a frame element 1 comprising ten first teeth 3 and ten second teeth 2 as shown in Figure 4. The frame element 1 is formed from a steel sheet strip having a thickness of 1mm thereby contributing to the relative light weight of the completed fence panel 5, and although reasonably flexible on its own, each frame element 1 derives an increased degree of longitudinal rigidity when the palings 4, 8 are attached to the frame element 1. The first teeth 3 and second teeth 2 are both hooked or bent type teeth and are formed by punching both sides of the frame element 1 respectively. There are provided five first sets 7 each comprising a pair of first teeth 2 and five second sets 6 each comprising a pair of second teeth 2. Each first set 7 forms a first fastener and each second set 6 forms a second fastener. The second sets 6 are longitudinally offset along the frame element 1 with respect to the first sets 7 such that there is a first set 7 centrally positioned between each adjacent pair of second sets 6.

The frame element 1 has an attachment means 20 at either end which can be used to attach fence panels together or to fence posts 10. The attachment means 20 can be connected to a fence post 10 either directly or via alternate attachment means attached to the fence post 10. Figure 5 shows a partially assembled fence panel 5 according to a second embodiment of the present invention comprising two frame elements 1 which can be assembled in

a similar fashion to the fence panel 5 of the first embodiment. The wooden first palings 4 and wooden second palings 8 are of the same width and therefore the first gaps 26 and second gaps 28 are also of the same width.

5 The attachment means 20 provide a means by which each fence panel 5 can be attached at either side edge, to either a fence post 10 or another fence panel 5.

The attachment means 20 of a first fence panel 5 can be

10 bolted to a corresponding attachment means 20 of a second fence panel 5, thereby attaching the first fence panel to the second fence panel. A number of fence panels may be attached in this manner with the two fence panels 5 at either extreme being attached to a different fence post

15 10. A pair of top rails 30 may be attached to an upper portion of each fence post 10 thereby compressing the attached fence panels 5 between the pair of top rails 30 (Fig. 6). Similarly, a pair of bottom rails 32 can be

20 attached to a lower portion of each fence post 10 thereby compressing the attached panels 5 between the bottom rails 32. Steel elbow brackets 34 may be used for attaching the top rail 30 and bottom rail 32 to the fence posts 10.

The attached fence panels 5 need not be attached to the

25 fence posts 10 and may instead be supported by the top rails 30 and bottom rails 32 only. In addition, the adjacent fence posts 10 could be spaced so that only a single fence panel 5 fits between them.

30 According to a third embodiment of the present invention, there is provided a fence panel 1 comprising a singular tubular frame element 1. The frame element 1 may be bent into a "Z" shape as shown in Fig. 7 and would be particularly suitable for forming a gate. The frame

35 element 1 would comprise a plurality of first and second fasteners on first 22 and second 24 sides of the frame element 1 respectively. Each fastener would typically

comprise a plurality of teeth, each tooth being a spike extending from the frame element 1 for penetrating the palings 4, 8 during fastening.

- 5 A fourth embodiment of the present invention is shown in Fig. 8. The first gap 26 and second gap 28 are greater than the width of the second paling 8 and first paling 4 respectively. Each frame element 1 has a circular cross-section although, alternatively, could be of the type
10 described in either the first or second embodiments. The first palings 4 and second palings 8 are inclined as indicated. As in the previous embodiments, the frame elements 1 would comprise a plurality of first and second fasteners on first 22 and second 24 sides of the frame
15 element 1 respectively.

Additional variations and embodiments of the present invention will be apparent to a person skilled in the art.

- 20 The frame element 1 of the first and second embodiments was formed from a steel strip of fasteners with each fastener comprising a plurality of teeth. While less preferred, the frame element may have no teeth and instead, the fasteners may be formed from bolts which
25 protrude through holes in the palings 4, 8 wherein the palings 4, 8 are fastened to the frame element 1 with a nut. Furthermore, the palings 4, 8 would preferably be wooden although could alternatively be made from fibre board, metal or plastics materials. The steel strip used
30 to form the frame element 1 could be any sheet metal including aluminium, galvanised steel or any or other like material.

- It will be appreciated by those skilled in the art that a
35 fastener need only comprise a single tooth 2, 3. Increasing the number of teeth 2, 3 per fastener has the benefit of further resisting the flexion of each frame

element 1 about the faster although also requires a greater pressing force when fastening the palings 4, 8 to the frame element 1. Various configurations of teeth 2, 3 can be selected so as to strike a balance between the flexion of the frame elements 1 and the pressing force required to fasten the palings 4, 8 to the frame elements 1.

The type of teeth 2, 3 shown in the various embodiments were by way of example only and any similar means for fastening the palings 4, 8 to the frame elements 1 could be alternatively used. The arrangement of the teeth sets 6, 7 could also be varied, and the first palings 4 and second palings 8 could be co-incident with one another wherein a viewer looking through the gaps 26, 28 does not have their view impeded by a paling 4, 8.

The teeth 2, 3 in the embodiments would typically not protrude from the face of the palings 4, 8 when the palings 4, 8 are fastened to the frame elements 1. In a further embodiment, the teeth may protrude from the face of the palings 4, 8 and can then be bent over for improved fastening strength.

The fence panels 5 indicated in the preferred embodiments comprise a plurality of first palings 4 and second palings 8 which were substantially vertical to the ground when the panels were installed upright in the fence. In another embodiment of the present invention, the palings 4, 8 could be oriented such that their edges are angled at 45° from the ground (and therefore the frame elements 1) or substantially horizontally. In addition the first palings may be at 45° and the second palings may be at 135° thereby giving a criss-cross effect. In addition, the frame elements 1 could be oriented at any angle relative to either the palings 4, 8 or the ground.

In the second embodiment of the present invention, the attachment means 20 was provided at either end of the frame element 1. In an alternative embodiment, the attachment means need only be present at one end of the frame element 1, or indeed need not be present at all wherein two frame elements may be welded or bolted directly together. The attachment means 20 could additionally be replaced by any other clamping, clasping or other like attachment means.

10

The first embodiment described a section of fence wherein the ends of both the first palings 4 and second palings 8 were accommodated by a slot 18. In an alternative embodiment, the slot need only be wide enough to accommodate either the first palings 4 or second palings 8 of the fence panel 5, but not both.

15

In a further embodiment, each frame element 1 may consist of a pair of sub-frame elements having fasteners on one side only. The sub-frame elements may then be fastened together in pairs, with their respective fasteners arranged in mutually opposite directions.

20

These and other modifications may be made without departing from the ambit of the invention, the nature of which is to be determined from the foregoing description.

25

THE CLAIMS DEFINING THE INVENTION ARE AS FOLLOWS:

1. A fence panel comprising:
 - at least one frame element having a plurality of
 - 5 first fasteners and a plurality of second fasteners;
 - a plurality of first palings respectively
 - fastened to a first side of said at least one frame
 - element by said plurality of first fasteners; and
 - a plurality of second palings respectively
 - 10 fastened to a second side of said at least one frame
 - element by said plurality of second fasteners.
2. A fence panel as claimed in claim 1 wherein at least
- 15 some of first and second palings are arranged in
- overlapping relationship with one another, thereby
- resisting flexion of each said at least one frame element.
3. A fence panel as claimed in claim 2 wherein each first
- 20 paling overlaps at least one second paling.
4. A fence panel as claimed in claim 1 or claim 2
- comprising a plurality of frame elements, each frame
- element having a plurality of said first and second
- fasteners.
- 25 5. A fence panel as claimed in claim 1 wherein each first
- fastener comprises one or more first teeth for penetrating
- a first paling, and each second fastener comprises one or
- more second teeth for penetrating a second paling.
- 30 6. A fence panel as claimed in claim 1 wherein each frame
- element comprises a pair of fastened sub-frame elements,
- each sub-frame element having fasteners on one side only,
- said sub-frame elements being fastened with their
- 35 respective fasteners arranged in mutually opposite
- directions.

7. A fence panel as claimed in claim 1 wherein there is a plurality of first gaps between adjacent ones of said plurality of first palings and a plurality of second gaps between adjacent ones of said plurality of second palings.

5

8. A fence panel as claimed in claim 7 wherein said panel comprises two or more frame elements arranged substantially parallel to each other.

10 9. A fence panel as claimed in claim 8 wherein said plurality of first palings are longitudinally offset along each frame element with respect to said plurality of second palings.

15 10. A fence panel as claimed in claim 7 wherein:
each first gap is in register with a second paling whereby a person looking through a first gap has their view impeded by a second paling; and
each second gap is in register with a first paling whereby a person looking through a second gap has their view impeded by a first paling.

20 11. A fence panel as claimed in claim 1 wherein said plurality of first and second palings are arranged transversely to said at least one frame element.

25 12. A fence panel as claimed in claim 1 further comprising an attachment means at a pair of opposing side edges, said attachment means being for attaching said panel to either
30 a second panel or a fence post.

13. A fence panel as claimed in claim 1 wherein said at least one frame element is a single tubular frame element.

35 14. A fence panel as claimed in claim 1 wherein each frame element comprises a strip of sheet metal having a substantially rectangular cross section.

15. A fence panel as claimed in claim 1 wherein said plurality of first palings are a first width and said plurality of second palings are a second width.

5

16. A section of fence comprising:

two adjacent fence posts;

at least one frame element between said two adjacent fence posts having a plurality of first fasteners and a plurality of second fasteners;

10

a plurality of first palings respectively fastened to a first side of said at least one frame element by said plurality of first fasteners; and

15

a plurality of second palings respectively fastened to a second side of said at least one frame element by said plurality of second fasteners.

17 A section of fence as claimed in claim 16 wherein each said at least one frame element further comprises a pair of attachment means for attaching said frame element to either a fence post or a further attachment means.

20

18. A section of fence as claimed in claim 16 further comprising:

25

a top rail attached to an upper portion of each fence post, said top rail having a slot for accommodating the top end of each first and second paling; and

a bottom rail attached to a lower portion of each fence post, said bottom rail having a slot for

30

accommodating the bottom end of each first and second paling;

wherein said section of fence is formed in a straight line between said two fence posts when the top end of each first and second paling is accommodated in said slot of said top rail and the bottom end of each first and second paling is accommodated in said slot of said bottom rail.

35

19. A fence comprising a plurality of fence panels as claimed in claim 1.

5 20. A gate comprising:

at least one frame element having a plurality of first fasteners and a plurality of second fasteners;

a plurality of first palings respectively fastened to a first side of said at least one frame element by said plurality of first fasteners; and

a plurality of second palings respectively fastened to a second side of said at least one frame element by said plurality of second fasteners.

15 21. A method for assembling a fence panel comprising the steps of:

providing at least one frame element having a plurality of first fasteners and a plurality of second fasteners;

20 respectively fastening a plurality of first palings to a first side of said at least one frame element using said plurality of first fasteners; and

respectively fastening a plurality of second palings to a second side of said at least one frame element using said plurality of second fasteners.

22. A method for assembling a fence panel as claimed in claim 21 wherein:

each first fastener comprises one or more first teeth and each second fastener comprises one or more second teeth;

said step of fastening a plurality of first palings involves pressing said first teeth of each first fastener into a respective first paling wherein said plurality of first teeth penetrate said plurality of first palings thereby fastening said plurality of first palings to said first side; and

said step of fastening a plurality of second palings involves pressing said second teeth of each second fastener into a respective second paling wherein said plurality of second teeth penetrate said plurality of second palings thereby fastening said plurality of second palings to said second side.

23. A method for installing a section of fence between two adjacent fence posts comprising the steps of:
- 10 assembling at least one fence panel, each fence panel being assembled by providing at least one frame element having a plurality of first fasteners and a plurality of second fasteners, respectively fastening a plurality of first palings to a first side of said at least one frame element using said plurality of first fasteners, and respectively fastening a plurality of second palings to a second side of said at least one frame element using plurality of said second fasteners;
 - 15 situating said at least one fence panel between said two fence posts;
 - 20 attaching a pair of top rails to an upper portion of each fence post wherein said at least one fence panel is compressed between said pair of top rails; and
 - 25 attaching a pair of bottom rails to a lower portion of each fence post wherein said at least one fence panel is compressed between said pair of bottom rails.

24. A method for installing a section of fence as claimed in claim 23 wherein said step of assembling at least one fence panel involves assembling a single fence panel, attachment means being provided at a pair of opposing side edges of said fence panel.

25. A method for installing a section of fence as claimed in claim 23 wherein said step of assembling at least one fence panel involves assembling a plurality of fence

panels, said fence panels being attached together using attachment means provided at a pair of opposing side edges of each fence panel.

- 5 26. A method for installing a section of fence as claimed in claim 24 or claim 25 wherein said at least one fence panel is collectively attached to said fence posts using attachment means provided at side edges of said at least one fence panel.

10

27. A method for assembling a fence panel as claimed in claim 21 wherein the steps of fastening said plurality of first palings and said plurality of second palings are performed concurrently.

15

28. A frame element for assembling a fence panel, said fence panel comprising at least one said frame element, a plurality of first palings fastened to a first side of each frame element and a plurality of second palings fastened to a second side of each frame element, said frame element comprising:

20

a plurality of first fasteners for respectively fastening said plurality of first palings to said first side; and

25

a plurality of second fasteners for respectively fastening said plurality of second palings to said second side.

29. A frame element as claimed in claim 28 wherein:

30

each first fastener comprises a plurality of first teeth for penetrating a first paling; and

each second fastener comprises a plurality of second teeth for penetrating a second paling.

35

30. A frame element as claimed in claim 28 wherein said first and second fasteners are evenly spaced longitudinally along said frame element.

31. A frame element as claimed in claim 30 wherein said plurality of first fasteners are longitudinally offset along said frame element with respect to said plurality of second fasteners.

32. A frame element as claimed in claim 28 wherein said first and second fasteners are evenly spaced longitudinally along said frame element such that when said plurality of first palings are fastened to said first side and said plurality of second palings are fastened to said second side, there is a plurality of first gaps between adjacent ones of said plurality of first palings and a plurality of second gaps between adjacent ones of said plurality of second palings.

33. A frame element as claimed in claim 30 wherein said plurality of first fasteners are longitudinally offset along said frame element with respect to said plurality of second fasteners such that when said plurality of first palings are fastened to said first side and said plurality of second palings are fastened to said second side:

there is a plurality of first gaps between adjacent ones of said plurality of first palings and a plurality of second gaps between adjacent ones of said plurality of second palings;

each first gap is in register with a second paling whereby a person looking through a first gap has their view impeded by a second paling; and

each second gap is in register with a first paling whereby a person looking through a second gap has their view impeded by a first paling.

34. A frame element as claimed in claim 29 wherein said first teeth are spikes projecting laterally from said frame element and said second teeth are hooked.

35. A frame element as claimed in claim 29 wherein said first teeth and said second teeth are hooked.

5 36. A frame element as claimed in claim 28 comprising a strip of sheet metal having a substantially rectangular cross section.

10 37. A frame element as claimed in claim 28 comprising an attachment means at either end for attaching said rail to a fence post or other said attachment means.

Dated this 29th day of October 2003

THOMAS BOEHMKE

By their Patent Attorneys

15 GRIFFITH HACK

Fellows Institute of Patent and
Trade Mark Attorneys of Australia

ABSTRACT

The present invention is related to fencing using fence panels. Each fence panel comprises at least one frame
5 element having a plurality of first fasteners and a plurality of second fasteners, a plurality of first palings fastened to a first side of each frame element by the first fasteners, and a plurality of second palings fastened to a second side of each frame element by the
10 second fasteners. A method for assembling a fence panel, method for installing a section of fence using multiple fence panels and a frame element for assembling the fence panels are also provided.

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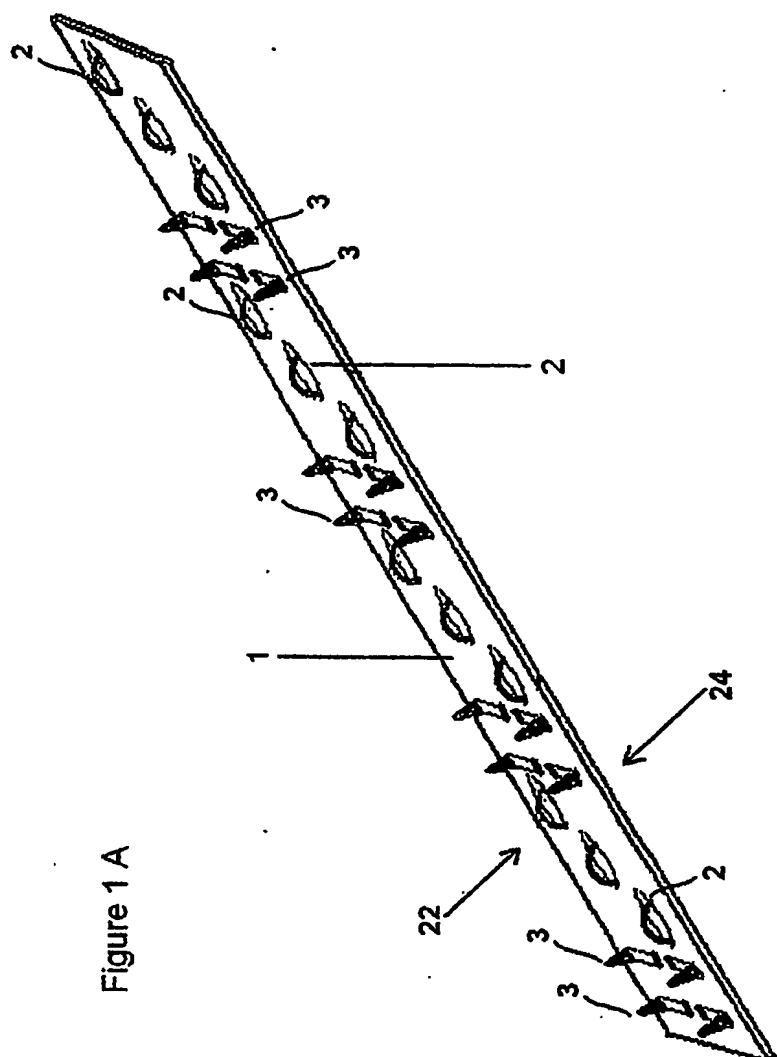
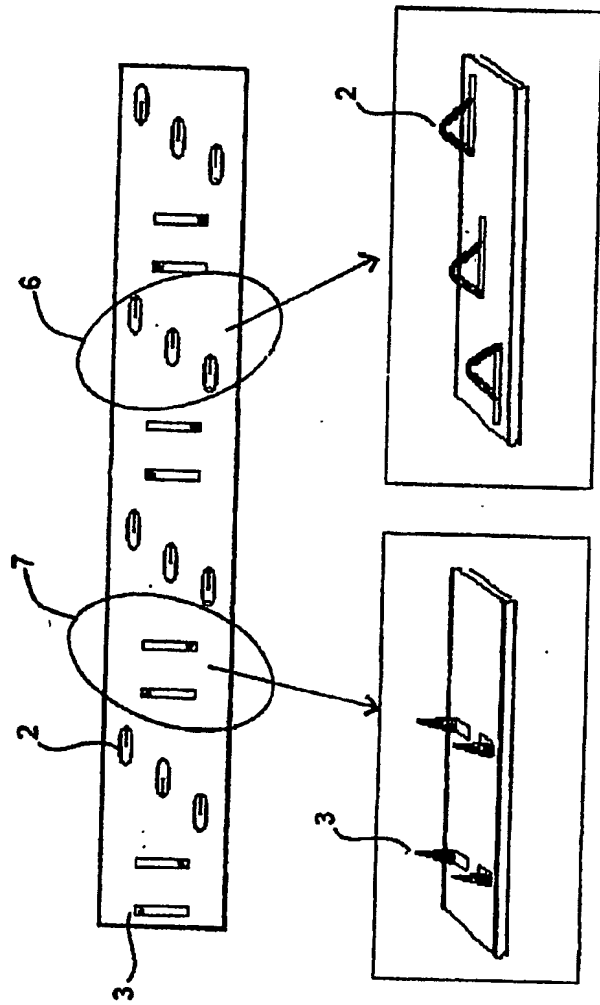


Figure 1 A

Figure 1 B



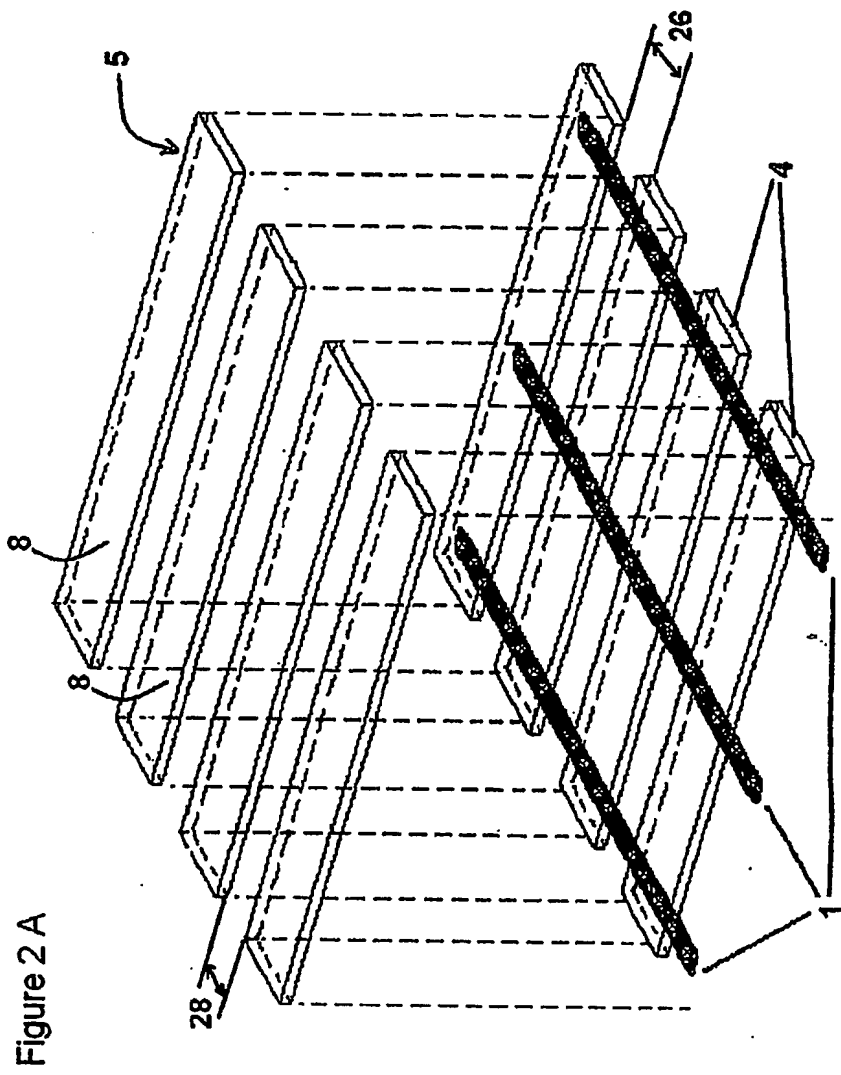
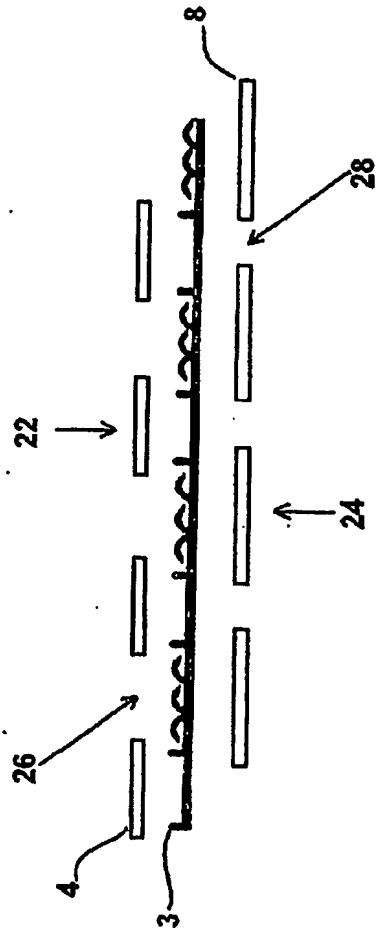


Figure 2 A

Figure 2 B



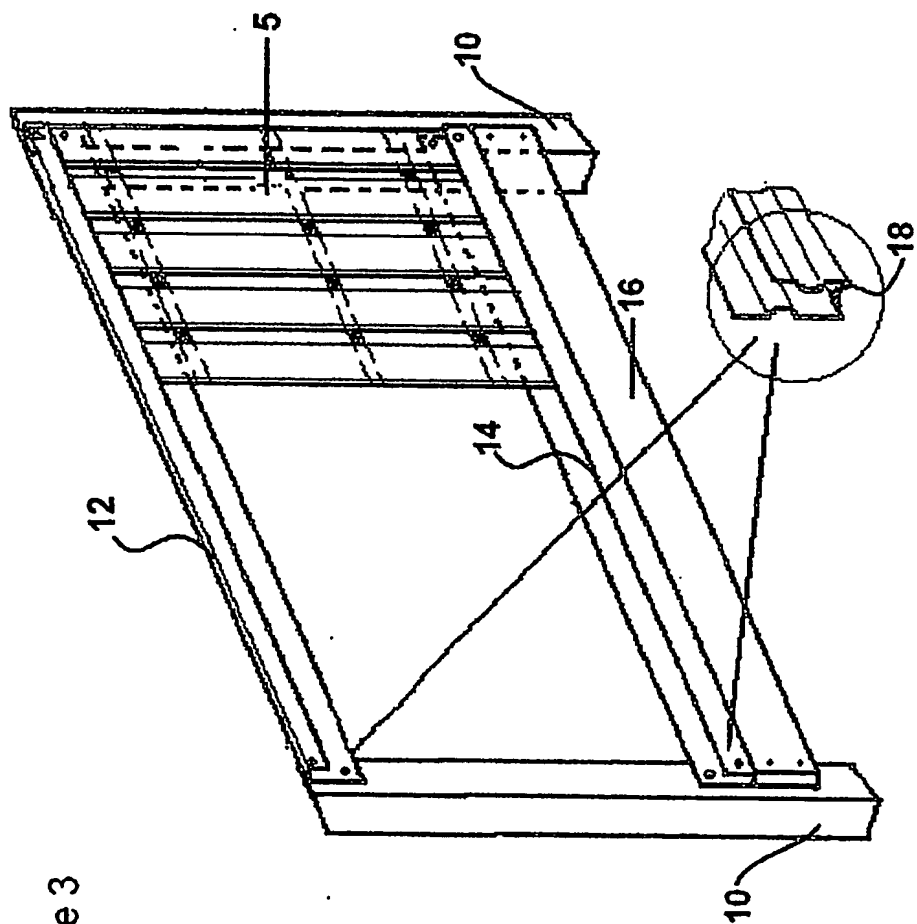


Figure 3

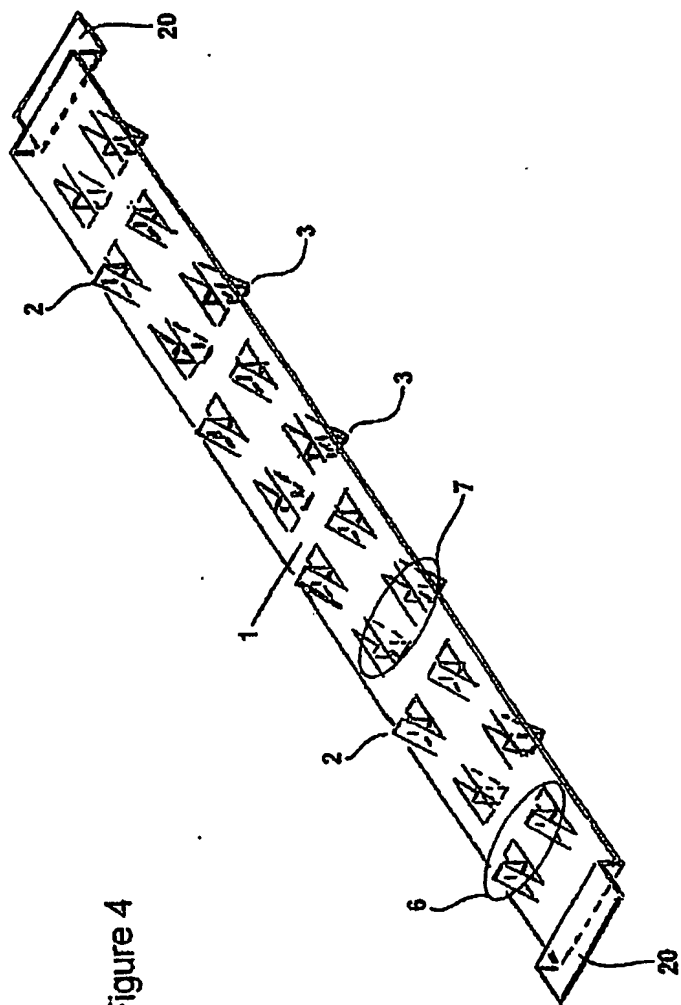


Figure 4

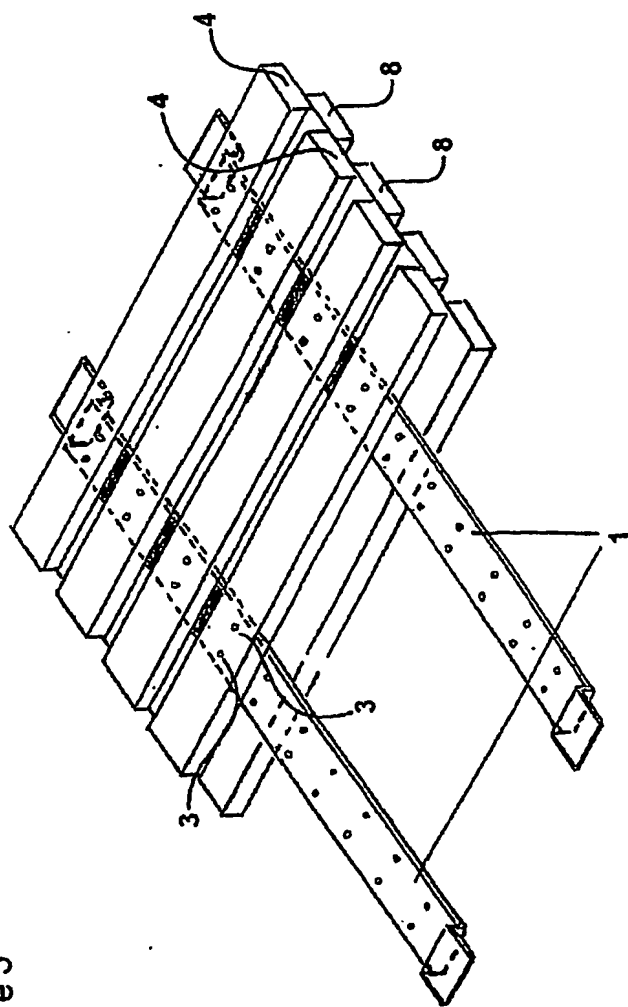


Figure 5

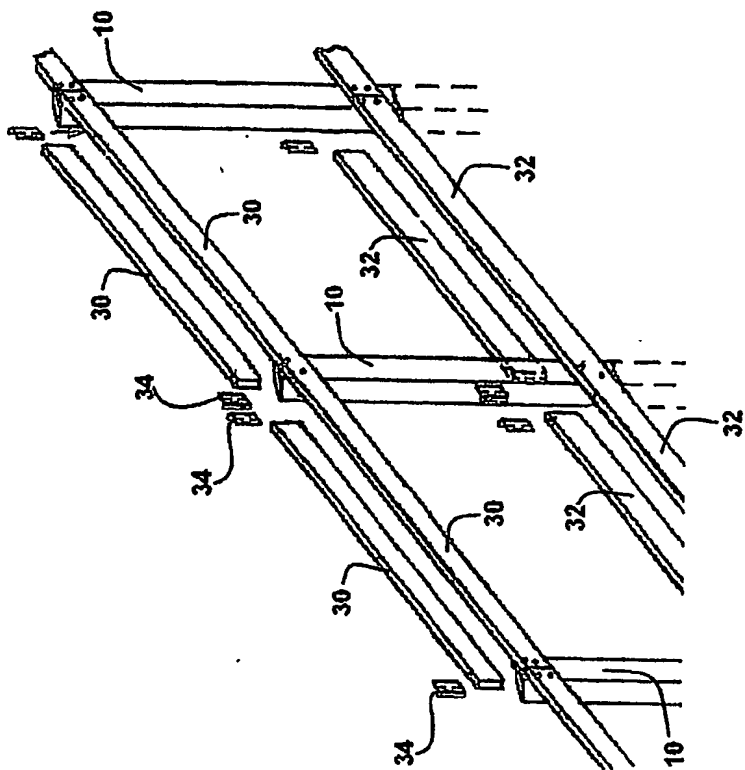


Figure 6

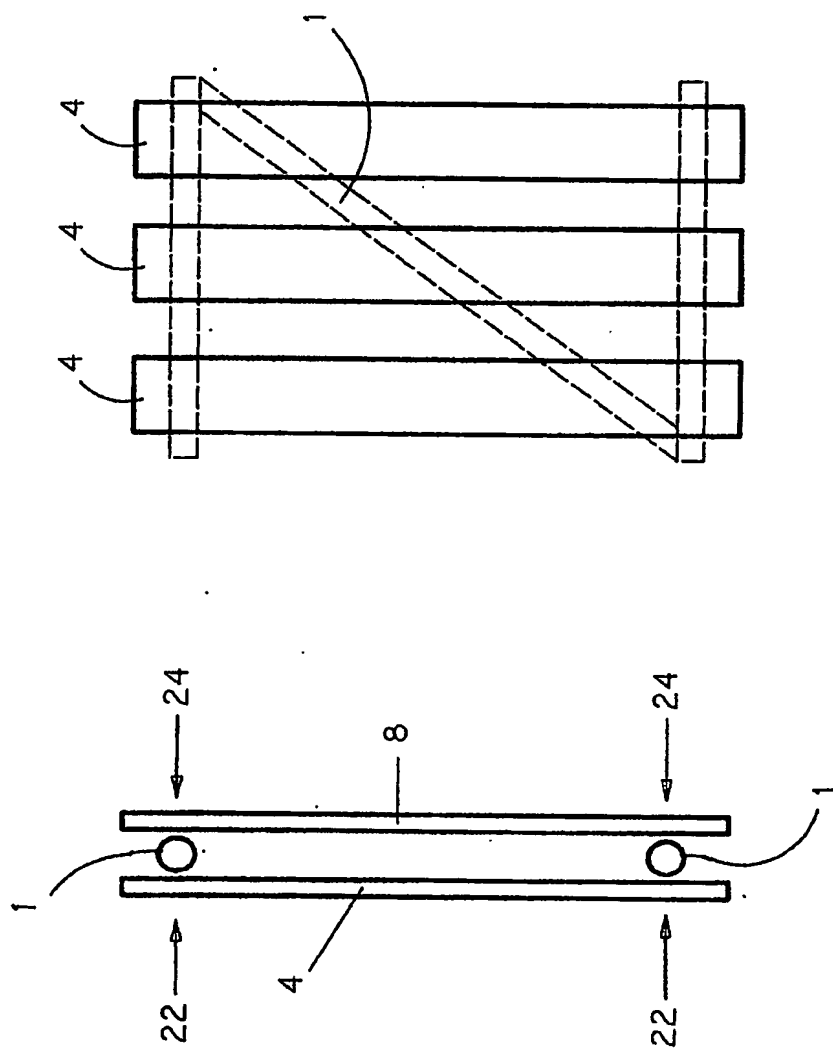


Figure 7

Figure 8

